

Reg. No. :

Name :

First Semester M.Sc. Degree Examination, August 2021

Home Science

X D – Food and Nutrition

HS 213 D – FOOD MICROBIOLOGY AND SANITATION

(2018 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

PART – I

All questions carry equal marks. No answer should exceed **4** pages.

1. (a) Elaborate on the extrinsic factors affecting the growth of microbes.

OR

- (b) Describe the sources of contamination in milk, spoilage and prevention.

2. (a) Explain the strategies that can be adopted to prevent food hazards of microbial origin.

OR

- (b) Write an essay on FSSAI as an enforcement agency in India.

(2 × 15 = 30 Marks)

P.T.O.



PART – II

All questions carry equal marks. No answer should exceed **4** pages.

3. (a) Discuss the microbes in plants and animals.

OR

- (b) Describe the principles of HACCP as a Food safety Management System.

4. (a) Write an essay on the methods that can be adopted to prevent the spoilage of cereals.

OR

- (b) Explain the growth curve of bacteria.

(2 × 10 = 20 Marks)

PART – III

5. Write any **five** of the following each not exceeding **2** pages.

- (a) Effect of moisture content on the growth of microorganisms.
- (b) Botulism
- (c) Techniques to minimize pesticides residues in Fruits and Vegetables
- (d) Farm to Fork Approach in Food safety
- (e) Prebiotics
- (f) Nanothermosonication
- (g) FDA.

(5 × 5 = 25 Marks)

